Attorney Docket No. 522.1921D3

# 09/909809 09/909809 07/23/01

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re F	atent Applica	ation of:		# 2 Plunkat			
Mayur	n <del>i</del> TOMIKAW	/A et al.		Dlunker			
Applic	ation No.: Di	ivisional of 08/014,867	Group Art Unit: 2163	ί,			
Filed:	July 23, 200	01	Examiner: Stamber, E.				
For:	For: METHOD AND APPARATUS FOR EXTRACTING AND EVALUATING MUTUALLY SIMILAR PORTIONS IN ONE-DIMENSIONAL SEQUENCES IN MOLECULES AND/OR THREE-DIMENSIONAL STRUCTURE OF MOLECULES						
		INFORMATION DISCLO	SURE STATEMENT				
	ant Commiss ngton, D.C.	ioner for Patents 20231					
patent	information wapplication. It	e with the duty of disclosure proviously the Examiner may consider is requested that the Examiner mation of the subject application.	material to the examination o	f the subject U.S.			
1.Enclo	osures accomp	eanying this Information Disclosur	e Statement are:				
	<ul> <li>1a.</li></ul>						
2.	This Inform	ation Disclosure Statement is filed under	er 37 CFR §1.97(b):				
(Check e	either Item 2a or	2b or 2c or 2d)					
	2a. 🛚	Within three months of the filicontinued Prosecution Applic	ation under §1.53(d);				
	2b. 🗌	Within three months of the da §1.491 in an international app		stage as set forth in			
	2c. 🔲	Before the mailing of a first O		or			

Before the mailing of a first Office Action after the filing of a Request for

Continued Examination under §1.114.

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3.		2 above	his Information Disclosure Statement is filed under 37 CFR §1.97(c) after the period specified in paragraph above but before the mailing date of a Final Office Action under §1.113, a Notice of Allowance under 1.311 or an action that otherwise closes prosecution in the application, AND					
			a or 3b; Item 3b to be checked if for more than 3 months)					
		3a. [ 3b. [	The §1.97(e) Statement in Item 5 below is applicable; OR The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is: enclosed.					
			to be charged to Deposit Account No. 19-3935.					
4.			ormation Disclosure Statement is filed under 37 CFR §1.97(d) after period specified in paragraph 3 out on or before payment of the Issue Fee, AND					
		4a. [ 4b. [	The § 1.97(e) Statement in Item 5 below is applicable; AND The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is: enclosed.					
			to be charged to Deposit Account No. 19-3935.					
5.	□ eck eith	Stateme	nt under § 1.97(e) (applicable if Item 3a or Item 4 is checked)					
(0		5a.						
		оа. <sub>[</sub>	information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.					
		5b. [	In accordance with 37 CFR §1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.					
6.	$\boxtimes$		continuation/divisional/continuation-in-part application under 37 CFR §1.53(b).					
(Che	еск арр	-	Items 6a and/or 6b)					
		6a. [∑	Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. 08/014,867, filed on February 8, 1993, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. §120, have been omitted pursuant to 37 CFR §1.98(d).					
		6b. [						
7.	$\boxtimes$		a continuation/divisional application under 37 CFR §1.53(d) or Request for Continued Examination 7 CFR 1.114.					
(Che	eck eith	er Item 7						

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	7a. 🔀 7b. 🗌	The Issue Fee has not been paid. A Petition to Withdraw from issue under 37 CFR §1.313(c) is filed concurrently herewith or has been granted. A continuation application under 37 CFR §1.53(d) or Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee is proper in accordance with 37 CFR §1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.
8.		pplemental Information Disclosure Statement.
(Check eithe	r Item 8a or	8b)
	8a. 🗌	This Supplemental Information Disclosure Statement under 37 CFR §1.97(f) supplements the Information Disclosure Statement filed on A bona fide attempt was made to comply with 37 CFR §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can
	8b. 🗌	be considered as if properly filed on  This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §1.97 and 1.98, mailed  (MPEP 609 C(1), Form ¶ 6.49, Rev. 1, Feb. 2000, pp. 600-107)
		with 37 CFR §1.98, a concise explanation of what is presently understood to be the relevance of lish language publication is:
(Check appr	opriate Item.	s 9a, 9b, 9c and/or 9d)
	9a. ☐ 9b. ☐	satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office. (See U.S. Patent & Trademark Office's authorization in the Federal Register, Vol. 57, No. 12, January 17, 1992, at page 2031 (Reply to Comment 68).) set forth in the application.
	9b 9c	satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.
	9d. 🗌	enclosed as Attachment 1(e), hereto.

- 10.No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).
- 11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR §1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Dated: 23, 200/ 700 Eleventh Street, N.W., Suite 500

Washington, D.C. 20001 Telephone: (202) 434-1500 Facsimile: (202) 434-1501 Ву: \_

Gene M. Garner II Registration No. 34,172

S&H Form: (2/01)

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FORM PTO-1449 U	S. DEPARTMENT OF COMMERCE	ATTORNEY DOCKET NO.	APPLICATION I	<u>10.00</u>	
PATENT AND TRADEMARK OF	FICE.	522.1921D3	Divisional of	‰‰	
TATELY THE HOLDENHAUCOF	T T C E	,	08/014,867	65	
	COURTED DAY ADDITIONATE	FIRST NAMED INVENTOR		<u> </u>	<b>1</b> 00
LIST OF REFERENCE	S CITED BY APPLICANT	Mayumi TOMIKAWA et al.		00	'墨`
		FILING DATE	GROUP ART UN	10	To the second
(Use several sheets if necessary)		july 23, 2001	2163	<u> </u>	手

### U.S. PATENT DOCUMENTS

EXAMINER	Ţ			T T		SUB-	FILING
INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	CLASS	DATE
-	AA	4,823,306	4/89	Barbic et al.			
	AB	4,853,871	8/89	Pantoliano et al.			
	AC	4,939,666	7/90	Hardman			
	AD	5,157,736	10/92	Boyer et al.			
	AE	5,200,910	4/93	Subbiah			
	AF	5,241,470	8/93	Lee et al.			
	AG	5,263,159	11/93	Mitsui			
	AH	5,331,573	7/94	Balaji et al.			
	Al	5,410,493	4/95	Konagaya			
· · · · · · · · · · · · · · · · · · ·	AJ	5,446,798	8/95	Morita et al.			

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY		CLASS	SUB- CLASS	LATION NO
	AK							
	AL							
	AM							
<del></del>	AN							
	AO							
	AP	<del>                                     </del>	<del></del>		* - 1		<u>.                                    </u>	

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

A	"The Student Edition of MATLAB", 1992 by The MathWorks, Inc., Prentice-Hall Publishing
A	Vriend and Sander, A Detection of Common Three-Dimensional Substructures in Proteins@PROTEINS: Structure, Function, and Genetics, No. 1, 1991, pages 52-58
A	homologous Proteins@ Journal of Molecular Biology, (1992) 225, pages 5-9
A	Shoichi Sato and Toru Yao, A Homology Analysis of Protein Conformational Data,@ The Tenth Chemistry Information Discussion Meeting, November 6 - November 8, 1987, The Fifteenth Structure-Activity Relationship Program, Novmeber 6 - November 8, 1987, pp. 88-92 (English Translation numbered as pp. 1-6)
A	Toru Kitanaka and Hideaki Umeyama, A Development of a Protein Modeling Method by Using Known Conformations@, The Tenth Chemistry Information Discussion Meeting, November 6 - November 8, 1987, The Fifteenth Structure-Activity Relationship Program, November 6 - November 8, 1987, pp. 354-357 (English Translation numbered as pp. 7-15)
A	Nobuo Tomioka and Akiko Itai, AA Variety of Computer Images Molecular Designing and Molecular Modeling@, pp. 64, 65, et. seq. (English Translation numbered as pp.16-23)
A	Orengo, Brown, and Taylor, A Fast Structure Alignment for Protein Databank Searching@ PROTEINS: Structure, Function, and Genetics 14:139-167 (1992)

EXAMINER	DATE CONSIDERED						
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not							
considered. Include copy of this form with next communication to applicant.							

	ATTORNEY DOCKET NO.	APPLICATIONALD, FORM. (2/0)
LIST OF CODENINING A DDI ICATIONS	522.1921D3	Divisional Application of 08/014,867
LIST OF COPENDING APPLICATIONS	FIRST NAMED INVENTOR	
	Mayumi TOMIKAWA et al	46
	FILING DATE	GROUP ART UNIT
	July 23, 2001	2163
TTACHMENT I(f)		, <u>v</u>

The following, prior-filed, copending U.S. patent application(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application. A copy of the identified copending application(s) is provided pursuant to 37 CFR 1.98(a)(2)(iii), unless domestic priority thereto has been claimed under 35 USC §120, 37 CFR §1.98(d).

It is requested that the Examiner acknowledge his consideration of application(s) below-listed by initialling same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information

EXAMINER INITIAL		U.S. SERIAL NO.	FILING DATE	NAME	ASSIGNEE	Domestic Priority Claimed?
	1	08/014,867	February 8, 1993	Mayumi TOMIKAWA et al.	FUJITSU LIMITED	
	2					
	3					
	4		ļ			
	5					
	6					
	7	1				
	8					

is being filed.

#### U.S. PATENT APPLICATION DOCUMENTS

EXAMINER	DATE CONSIDERED				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					